DG 3 8 4 Attachment

.**AA09*** Y09-007

REV. C

8/1: 381.01, 382.00 SYS: OPF FIREX WATER

Critical Item: Valve, Flow Control (36 Items) JLN 2 B 1991

Find Number: FV1, AV1

\$050224#

ATTACHMENT .

Criticality Category: 15

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SAA No: 09 Y09-007

System/Area: DFF Firex Mater Deluge/

H\$ 1, 2, 3

NASA

Part No: None

K60-0513/Firex, 09RF PPIN/

Name: K60-0508/Firex. OFF

Hfg/

Viking Corp.

Drawing/

Part No: Model 6-2, P/N 957-A

Sheet No: 80K50334/2, 3

79K16974/6

Function: Arms and activates Firex water deluge sprays. Two valves (FY1 α AV1) must open for deluge to occur in each zone.

Critical Failure Mode/Failure Mode No: Fail closed/09FY09-007.001 (36 valves)

Failure Causes: Sinding due to eprrosion or failure of internal piece part.

Failure Effect: Loss of sprays in the respective zone served by the valve. Possible loss of life/vehicle during a hezardous condition. Time to effect is

Acceptance Rationale

Design:

- o Valve is a NFPA rated valve for firex mater system applications and is used extensively in commercial and industrial sprinkler systems.
- o Valve design ensures reliability with only one moving part. Valve is opened by upstream water pressure when control pressure on the disphragm is wented.
- o The valve body and cover are made of ASTH Al26 Class B gray cast iron. Other components are made of bronze and stainless steel. Diabhragm and swat are Meopreme.
- o Operating pressure is 136 psig. Maximum design working pressure is 176 psig. Walve is hydrostatically rested to 350 psi.

WORKSHEET \$122-012 910315ke/03-1070/OMRF

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JUN 2 8 1991

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Valve, Flow Control (Continued)

Test:

 OMRSD File VI requires flow test and verification of electrical and manual activation annually and at replacement.

Inspection:

 Visual inspection for corrosion is performed during Premission Validation (OMI M2083).

Failure History:

- The PRACA database was queried and no failure data was retrieved against this component.
- The GIDEP failure data interchange system has been researched and no failures of this component were found.

Operational Use:

Correcting Action:

There is no action which can be taken to mitigate the failure effect.

o Timeframe:

Since no correcting action is available, timeframe does not apply.